

IN THE CLAIMS:

Please cancel claims 1 and 4.

Please add the following new claims:

- al
cont
- 7. A three-dimensional structure estimation apparatus which measures a depth distance to an object on an image and outputs a depth image, comprising:
a plurality of cameras for producing images having different resolutions from each other;
a conversion unit for converting the images outputted from said cameras into images whose pixel units are equal in magnitude; and
a depth image production section for comparing the images whose pixel units are equal in magnitude to calculate a depth distance to the object on the image to produce a depth image and outputting the depth image.
8. A three-dimensional structure estimation apparatus which measures a depth distance to an object on an image and outputs a depth image, comprising:
a plurality of first cameras for producing images having different resolutions from each other;
a plurality of second cameras having different visual fields from each other;
a conversion unit for converting the images outputted from said first and second cameras into images whose pixel units are equal in magnitude; and
a depth image production section for comparing the images whose pixel units are equal in magnitude to calculate a depth distance to the object on the image to produce a depth image and outputting the depth image.
9. A three-dimensional structure estimation apparatus which measures a depth distance to an object on an image and outputs a depth image, comprising:
a plurality of cameras for producing images having different resolutions from each other;

a conversion unit for converting the images produced by said cameras into images whose pixel units are equal in magnitude by parallel movement by different movement amounts; and

a depth image production section for comparing the images whose pixel units are equal in magnitude to calculate a depth distance to the object on the image to produce a depth image and outputting the depth image.

10. A three-dimensional structure estimation apparatus which measures a depth distance to an object on an image and outputs a depth image, comprising:

all cancelled
a plurality of first cameras for producing images having different resolutions from each other;

a plurality of second cameras having different visual fields from each other;

a conversion unit for converting the images produced by first and second said cameras into images whose pixel units are equal in magnitude by parallel movement by different movement amounts; and

a depth image production section for comparing the images whose pixel units are equal in magnitude to calculate a depth distance to the object on the image to produce a depth image and outputting the depth image.
